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- (71) Applicants (for all designated States except US): POHANG UNIVERSITY OF SCIENCE AND TECH-NOLOGY [KR/KR]; San 31, Hyoja-dong, Nam-gu, Pohang-si, Gyeongsangbuk-do 790-784 (KR). GENEXINE CO., LTD. [KR/KR]; #1403, Miwon B/D, Yeouido-dong 43, Yeongdeungpo-gu, Seoul 150-010 (KR). PROGEN CO., LTD. [KR/KR]; Sanggal-ri 47-5, Giheung-eup, Yongin-si, Gyeonggi-do 449-905 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SUNG, Young Chul [KR/KR]; #101-601, Hyundai-idong Town, Daejam-dong,

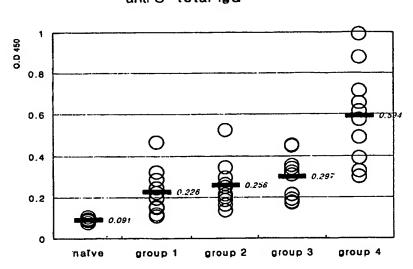
Nam-gu, Pohang-si, Gyeongsangbuk-do 790-310 (KR). PARK, Su Hyung [KR/KR]; #6-1101, Shindonga Apt., Myeongil 2-dong 44, Gangdong-gu, Seoul 134-825 (KR). CHANG, Jun [KR/KR]; #6-904, Gyosu Apt., Jigok-dong 755, Nam-gu, Pohang-si, Gyeongsangbuk-do 790-751 (KR). SON, Jong Moon [KR/KR]; #26-1403, Donga Apt., Bupyeong-dong, Bupyeong-gu, Incheon 403-010 (KR), LEE, Sung Hee [KR/KR]; #101-306, Hyundai Apt., Bongcheon 11-dong 179-58, Gwanak-gu, Seoul 151-815 (KR). KIM, Won Bae [KR/KR]; #A-1801, Daelim Acrovill, Dogok-dong 476-6, Gangnam-gu, Seoul 135-270 (KR). KIM, Byong Moon [KR/KR]; #Dadong-401, Dongsin Apt., Dogok-dong 902-8, Gangnam-gu, Seoul 135-270 (KR).

- (74) Agent: SON, Min; 19th Floor, City Air Tower, Samsungdong 159-9, Kangnam-gu, Seoul 135-973 (KR).
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(54) Title: VACCINE COMPOSITION COMPRISING IL-12 ADJUVANT ENCAPSULATED IN CONTROLLED-RELEASE MI-**CROSPHERE** 

#### anti-S total IgG



(57) Abstract: Disclosed is a vaccine composition including a pathogenic antigen and IL-12 controlled encapsulated in release microspheres. Also, the present invention discloses method of enhancing the adjuvant effect of IL-12 by employing an IL-12 adjuvant encapsulated in controlled release microspheres. IL-12, used as an adjuvant for a co-administered vaccine antigen in the vaccine composition, is released in vivo for a prolonged period of time by being encapsulated in controlled release microspheres, thereby maximizing its adjuvant effect.

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